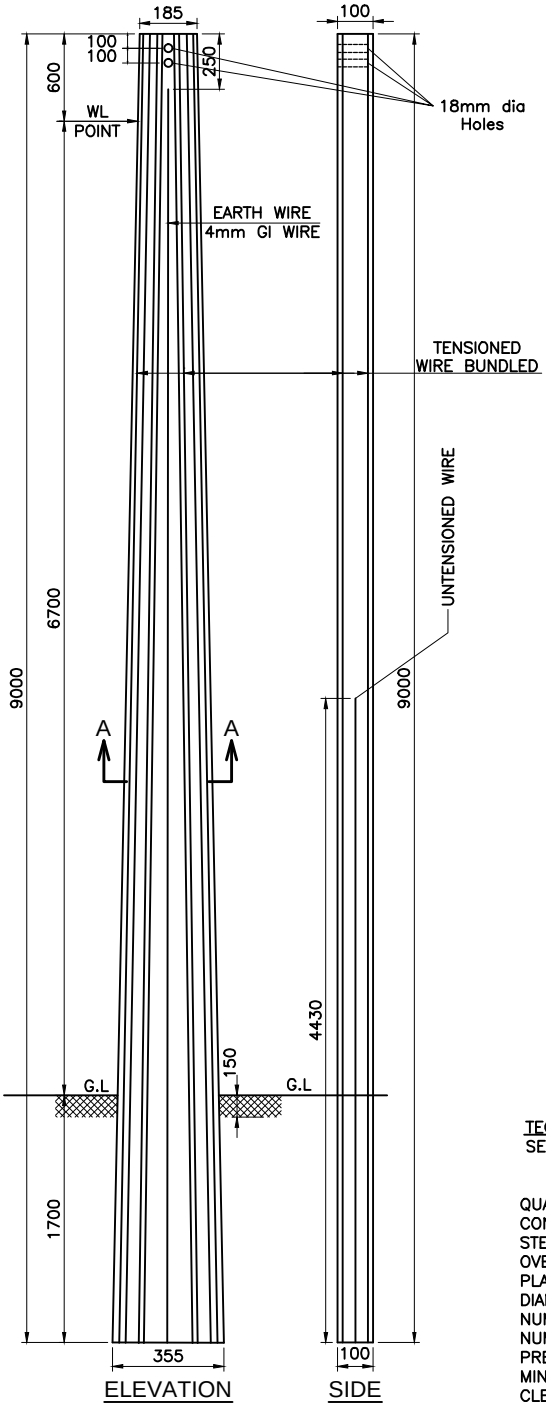
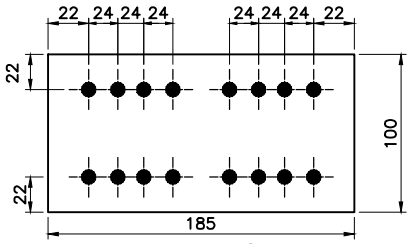
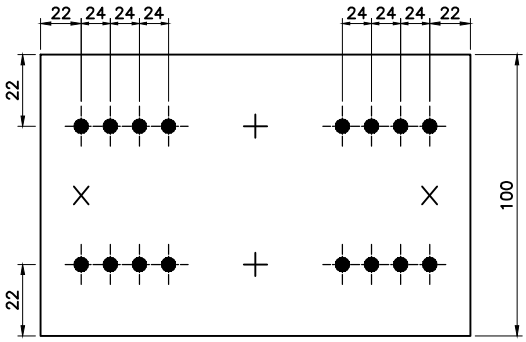
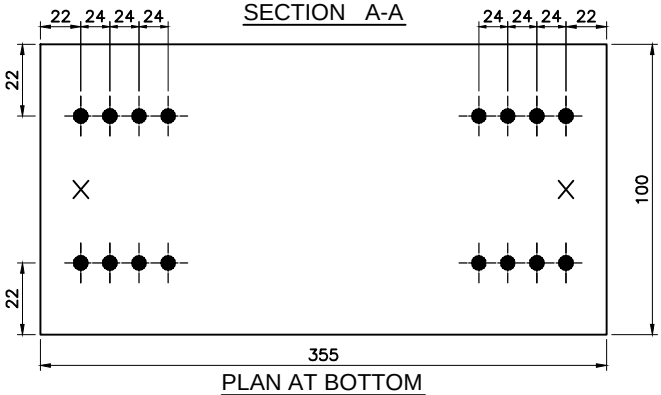




PLAN AT TOP



SECTION A-A



PLAN AT BOTTOM

● DENOTES TENSIONED WIRES
X DENOTES UNTENSIONED WIRES
+ POSSIBLE POSITION OF EARTH WIRE

TECHNICAL GUARANTEE PARTICULARS:

SECTION	
A)TOP	185x100mm
B)BOTTOM	355x100mm
QUANTITY OF CONCRETE	0.243m³
CONCRETE GRADE	M-40
STEEL QUANTITY PER POLE	15.94 Kg.
OVERALL LENGTH SUPPORT	9.0 Mtr
PLANTING DEPTH	1.7 Mtr
DIAMETER OF PRESTRESSING WIRE	4mm
NUMBER OF TENSIONED WIRES	16 NOS
NUMBER OF UNTENSIONED WIRES	2 NOS
PRE-TENSIONED APPLIED TO EACH 4mm WIRE	1760 Kgs
MINIMUM CUBE STRENGTH OF CONCRETE AT 28 DAYS	420 Kg/Cm³
CLEAR COVER	20mm
FACTOR OF SAFETY	2.0
WORKING LOAD	300 Kgs
ULTIMATE LOAD	600 Kgs
WEIGHT OF POLE(THEORITICAL)	607 Kgs
LOAD APPLICATION AT A POINT FROM THE TOP	600 mm
ULTIMATE TENSION STRENGTH FOR 4mm WIRE	17500 Kg/Cm²

Note: To make the poles surface non-slippery or antiskid the manufacturers shall add a textured or roughened finish to the pole surface by sand blasting/ abrasive blasting or adding ridges, grooves or knurling patterns

	Signatures	All dimensions are in mm unless otherwise stated.	
Chd	AGM (QS&S)	REINFORCEMENT DETAILS OF 9.0 M 300 Kg. PRESTRESSED CEMENT CONCRETE POLE (FACTOR OF SAFETY=2.0)	BESCOM Approved: General Manager,(Elec.) QS&S
Sub	DGM (QS&S)		
	SCALE: N.T.S		DRG.NO.BESCOM/GM/QS&S/55 REV-003 DATED:23-12-2019